

Annex L: 2004 King County Government Initiatives – Completed (removed from 2004 KC Annex B)

Regional Hazard Mitigation Plan of King County - Initiatives

Jurisdiction Agency: King County Solid Waste

Type of Hazard: Earthquake

Category: Continuity of Service / Health and Life Safety

Priority: 1

Plan Adoption # (*tracking #*)

Brief Description of Project: **Grid 2 & 3 Repairs** The Enumclaw Transfer Station needs improvements to meet current earthquake standards. This initiative sets steel plating to the roof repairs increasing the resistance to strong earthquakes.

Rationale for project: This facility is the only transfer station in south King County. It supplies an essential service to both the public and to other jurisdictions. If an earthquake were to impact the facility during normal operation hours, the facility could collapse and fatalities could be incurred, along with the loss of operations. Cost benefit analysis for the facility was done for replacement cost alone.

RHMP Goals Continuity of Service & Health life safety RHMP Objectives:

Lead Jurisdiction: King County Solid Waste

Participating Jurisdictions:

Cost of Project: \$148,000.00

Estimated time period implemented: < 12 months

Funding Sources: Grant & CIP

Matching %

Primary _____

Secondary _____

Tertiary _____

Source and Date: unknown

Adoptive date and/or Ordinance #

Status: Study has been completed with current costs.

Benefit/Cost Ratio: >16:1

Regional Hazard Mitigation Plan of King County - Initiatives

Jurisdiction Agency: King County Solid Waste

Type of Hazard: Earthquake

Category: Continuity of Service / Health and Life Safety

Priority: 2

Plan Adoption # (*tracking #*)

Brief Description of Project **Perimeter Wall** The Enumclaw Transfer Station needs improvements to meet current earthquake standards. This initiative sets steel plating to connect the roof to the perimeter wall increasing the resistance to strong earthquakes.

Rationale for project: This facility is the only transfer station in south King County. It supplies an essential service to both the public and to other jurisdictions. If an earthquake were to impact the facility during normal operation hours, the facility could collapse and fatalities could be incurred, along with the loss of operations. Cost benefit analysis for the facility was done for replacement cost alone.

RHMP Goals

RHMP Objectives:

Lead Jurisdiction: King County Solid Waste

Participating Jurisdictions:

Cost of Project: \$266,000.00

Estimated time period implemented:

Funding Sources: Grant & CIP

Matching %

Primary

Secondary

Tertiary

Source and Date:

Adoptive date and/or Ordinance #

Status: Study has been completed with current costs

Benefit/Cost Ratio: >4.5:1

Regional Hazard Mitigation Plan of King County - Initiatives

Attachment A
16715

Jurisdiction Agency: King County Solid Waste

Type of Hazard: Earthquake

Category: Continuity of Service / Health and Life Safety

Priority: 3

Plan Adoption # (tracking #)

Brief Description of Project **Panel to Panel Joint Connections** The Enumclaw Transfer Station needs improvements to meet current earthquake standards. This initiative sets connecting the panels with joint connectors increasing the resistance to strong earthquakes.

Rationale for project: This facility is the only transfer station in south King County. It supplies an essential service to both the public and to other jurisdictions. If an earthquake were to impact the facility during normal operation hours, the facility could collapse and fatalities could be incurred, along with the loss of operations. Cost benefit analysis for the facility was cone for replacement cost alone.

RHMP Goals

RHMP Objectives:

Lead Jurisdiction: King County Solid Waste

Participating Jurisdictions:

Cost of Project: \$153,000.00

Estimated time period implemented: < 12 months

Funding Sources: Grant & CIP

Matching %

Primary _____

Secondary _____

Tertiary _____

Source and Date:

Adoptive date and/or Ordinance #

Status: Study has been completed with current costs

Benefit/Cost Ratio: >7.8:1

Regional Hazard Mitigation Plan of King County - Initiatives

Jurisdiction Agency: King County Solid Waste

Type of Hazard: Earthquake

Category: Continuity of Service / Health and Life Safety

Priority: 4

Plan Adoption # (tracking #)

Brief Description of Project **Roof Parapet Bracing** The Enumclaw Transfer Station needs improvements to meet current earthquake standards. This initiative sets connecting roof parapet with steel bracing increasing the resistance to strong earthquakes.

Rationale for project: This facility is the only transfer station in south King County. It supplies an essential service to both the public and to other jurisdictions. If an earthquake were to impact the facility during normal operation hours, the facility could collapse and fatalities could be incurred, along with the loss of operations. Cost benefit analysis for the facility was done for replacement cost alone.

RHMP Goals

RHMP Objectives:

Lead Jurisdiction: King County Solid Waste

Participating Jurisdictions:

Cost of Project: \$33,000.00

Estimated time period implemented: < 12 months

Funding Sources: Grant & CIP

Matching %

Primary _____

Secondary _____

Tertiary _____

Source and Date:

Adoptive date and/or Ordinance #

Status: Study has been completed with current costs

Benefit/Cost Ratio: >36:1

Regional Hazard Mitigation Plan of King County - Initiatives

Jurisdiction Agency: King County Solid Waste

Type of Hazard: Earthquake

Category: Continuity of Service / Health and Life Safety

Priority: 5

Plan Adoption # (tracking #)

Brief Description of Project **Shear wall Connections** The Enumclaw Transfer Station needs improvements to meet current earthquake standards. This initiative sets shear wall bracing for increasing the resistance to strong earthquakes.

Rationale for project: This facility is the only transfer station in south King County. It supplies an essential service to both the public and to other jurisdictions. If an earthquake were to impact the facility during normal operation hours, the facility could collapse and fatalities could be incurred, along with the loss of operations. Cost benefit analysis for the facility was done for replacement cost alone.

RHMP Goals

RHMP Objectives:

Lead Jurisdiction: King County Solid Waste

Participating Jurisdictions:

Cost of Project: \$165,000.00

Estimated time period implemented: < 12 months

Funding Sources: Grant & CIP

Matching %

Primary _____

Secondary _____

Tertiary _____

Source and Date:

Adoptive date and/or Ordinance #

Status: Study has been completed with current costs

Benefit/Cost Ratio: >7:1

Regional Hazard Mitigation Plan of King County - Initiatives

Jurisdiction Agency: Public Health Seattle/King County

Type of Hazard: Earthquake, winter storm, civil unrest, flooding, etc.

Category: Life and health safety, public information and education, clinical response to disease, training, reporting, and communication

Brief Description of Proposed Project:

Our goals are to support the public's health through emergencies and disasters by

2. Enhancement of communication of Public Health sites internally (both within structures and between Public Health sites) and with other regional agencies through an amateur radio program and a short-range (family radio) program.

RHMP Goals

Supporting life and safety

Lead Jurisdiction: King Co. and City of Seattle

Cost of Project: Not yet determined

Estimated time period implemented: 5 years

Funding Sources: Not yet determined

Adoptive date and/or Ordinance #: Not yet determined

Status:

Program has been initiated with purchase of some amateur radio equipment, some family radios. Some staff of teams have been trained, some equipment reviewed and recommended for future purchases.

Regional Hazard Mitigation Plan of King County - Initiatives

Jurisdiction Agency: Public Health Seattle/King County

Type of Hazard: Earthquake, winter storm, civil unrest, flooding, etc.

Category: Life and health safety, public information and education, clinical response to disease, training, reporting, and communication

Brief Description of Proposed Project:

Our goals are to support the public's health through emergencies and disasters by

9. Enhancement of communication of Public Health sites internally (both within structures and between Public Health sites) and with other regional agencies though an amateur radio program and a short-range (family radio) program.

RHMP Goals

Supporting life and safety

Lead Jurisdiction: King Co. and City of Seattle

Cost of Project: Not yet determined

Estimated time period implemented: 5 years

Funding Sources: Not yet determined

Adoptive date and/or Ordinance #: Not yet determined

Status:

Program has been initiated with purchase of some amateur radio equipment, some family radios. Some staff of teams have been trained, some equipment reviewed and recommended for future purchases.

Regional Hazard Mitigation Plan of King County - Initiatives

Jurisdiction Agency: DES/ITS

Type of Hazard: **Downtown Seattle core becomes uninhabitable**

Category:

Priority:

Plan Adoption # (tracking #)

Brief Description of Project: Provide alternative sites and communication paths for King County's information and communication infrastructure, and/or harden existing facilities to make them more failure tolerant

Rationale for project: *(Recognizing the hazard and proposed solution, resolution, and/or specified law or regulation impinging on the project)*. King County has concentrated its data and voice networks, data centers, and data processing capability in downtown Seattle, one of our key regional hubs. This infrastructure supports public health, detention facilities (jail), courts, transit, and the sheriff's operations. If the downtown core, or parts of it, became unusable for any period of time, the communications and information processing of these government functions would quickly deteriorate.

In addition, significant portions of the communications and information processing for the City of Seattle, Port of Seattle, and the University of Washington (including Harborview Hospital, the region's first level trauma hospital) reside in or near the downtown core.

Significant amounts of high bandwidth fiber exist in the County, much of it owned or operated by King County. In addition King County has sites geographically disbursed across the county.

In partnership with other jurisdictions, the project would identify government functions that must be disaster resistant and those functions that need to be recoverable during and shortly after a disaster. Government functions with high criticality could be hardened or recoverable as separately funded projects. Other functions with lower criticality could be hardened or recoverable as part of normal, planned re-engineering and upgrades.

RHMP Goals

RHMP Objectives:

Lead Jurisdiction: King County

Participating Jurisdictions: City of Seattle, Port of Seattle, University of Washington, suburban King County cities, fire districts, regional emergency management and E911 organizations

Cost of Project: Unknown, likely in the \$50,000,000 range.

Estimated time period implemented: 2004 - 2009

Funding Sources:

Matching %

Primary	_____
Secondary	_____
Tertiary	_____

Source and Date:

Adoptive date and/or Ordinance #

Status: Assessment and planning has started. \$6,489,447 has been budgeted for initial business continuity, security, network infrastructure optimization, and data center alternative projects that tie into this initiative.

While we need a top down, government function assessment, there are obvious bottom up technological and location initiatives we will undertake while the full assessment is underway. Estimated expenditure, \$500,000.

Benefit/Cost Ratio:

Regional Hazard Mitigation Plan of King County - Initiatives

Jurisdiction Agency: King County Internal Government, Facilities Management Division

Type of Hazard: Earthquake

Category: Structure Retrofit

Priority: First, per RHMP

Plan Adoption # (*tracking #*)

Brief Description of Project: Structural upgrade of King County owned buildings operated by the Facilities Management Division to meet current seismic building standards.

Rationale for project: The protection of life and property, support of emergency services and to maintain continuity of government in King County owned buildings operated by the Facilities Management Division.

RHMP Goals Protect Life and Property
Support Emergency Services

RHMP Objectives:

Lead Jurisdiction: Manager, DES/FMD Building Services Section, King County Internal Government

Participating Jurisdictions:

Cost of Project: 71,500,000

Estimated time period implemented: 10 years, 1995 through 2005

Funding Sources: Capitol Improvement Budget

Matching %

Primary

Secondary

Tertiary

Source and Date:

Adoptive date and/or Ordinance #

Status: Seismic mitigation retrofit of 17 buildings in 13 critical facilities is completed or in progress as follows: Mitigation has been completed in 7 buildings, is in progress in 8, is scheduled for 1 and mitigation for the last identified building requiring retrofit is in the planning stage.

Benefit/Cost Ratio: 9.46 : 1 per MG 20-20

AB 401-403 Security additions.

The proposed upgrade to AB 401-403 security includes the following :

1. Adding the new, but already installed duress buttons at all AB401 counter stations. Splitting them into at least 2 zones , east and west.
2. Adding a door contact and motion to the vault in AB403.
3. Adding one duress button on the natural egress route from AB403 to AB401.
4. Adding one PTZ camera to Lobby/Waiting Area.
5. Duress to be monitored by Ccure System. Video including PTZ on Allegent system.

New equipment needed :

	<u>Equipment</u>
1. 1 (ea) motion detector	\$57.95
2. 1 (ea) door contact	N/C
3. 1 (ea) Phillips G3 PTZ Camera	\$1768.00
4. 1 (ea) Phillips camera power supply	\$59.95
5. 1 (ea) duress button.	N/C
6. 1 (ea) motion power supply	\$64.95
7. 1 (ea) NVT passive transceiver	\$134.50
8. Misc Parts	\$100.00
	\$2185.00 + tax and contingent.

Installation requires new wire pulls including:

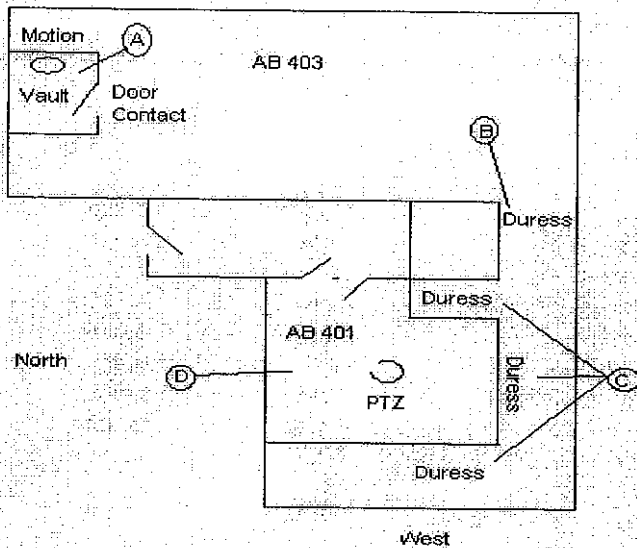
- 1 (ea) 25pair UTP cable to 2nd Flr AB Electrical Closet terminate at added punch blocks both ends.
- 1 (ea) Cat 3 UTP from 2nd Flr AB Electrical PB to 4th 401 new Camera location.
- 1 (ea) 18g 2C Shielded wire from CH EB36 to AB 2nd Flr Elec closet and then on to new camera location in 401 lobby.
- 2 (ea) 18g4C from 403 vault to AB 2nd Flr Elec Closet.
- 1 (ea) 18g4C from 401 Elec Room extend duress to AB 2nd Flr Elec Closet.
- 1 (ea) 16g 2C from New Camera Location to Camera Pwr Supply.

*Place Pwr supply for Motion/Camera at existing AC power source to be determined.

Labor

Security Project Manager 6hrs x \$40.77 = **\$245.00**

*Wiring and device installation costs to be determined by others.



1. Add 1 Door Contact and 1 Motion Detector at Vault location A
2. Add a new Duress button on wall location B
3. Connect already installed duresses as 2 separate zones (east and west) location C
4. Add Pan tilt zoom camera center of waiting room for full view of doors, counter stations and waiting area location D
5. Duress zones will call up camera PTZ
6. Motion and Door contact in vault on separate inputs

All Signal cable to 2nd Flr Electrical closet.

New devices

- 1ea Motion detector
- 1ea Door Contact
- 1ea Philips Q3 PTZ Camera
- 1ea Philips Camera Power supply
- 1ea Duress button
- 1ea motion pwr supply

Administration Building 5th Floor Elections security system upgrade.

Security additions to the Elections Suite on the AB 5th floor include the addition of access control to provide an audit trail of access to the general suite as well as specific access to vital locations within the suite. In addition duress and video monitoring is provided to facilitate immediate Security response to the public areas. Video monitoring of vital locations provides post event incident review.

Locations to receive card access include the two entry point to the suite, the vault, and the (2) doors into the Kings/JEMs rooms. A duress alarm push button at the public entrance counter and controllable camera provide staff with instant security response and the ability to monitor the public area by EDC security staff.

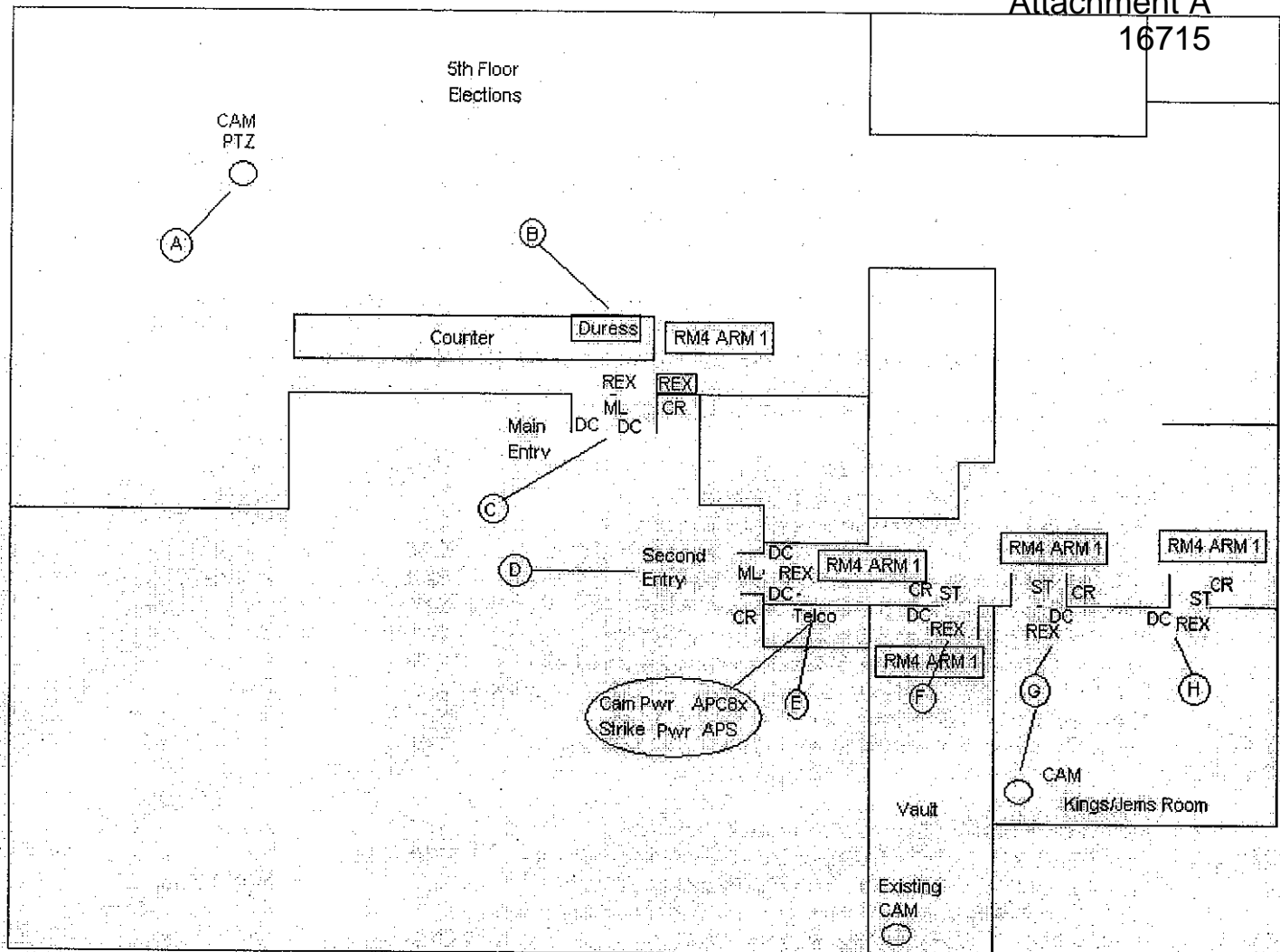
Budget estimate of New Equipment needed:

1ea AS0100-004 SoftwareHouse APC8x	\$3,000	\$3,000
1ea AS00-63-00 SoftwareHouse APS Power Supply	\$700	\$700
5ea 131-912 SoftwareHouse ARM1 Relay Module	\$75	\$375
5ea RM-4 SoftwareHouse Rm4 Personality Module	\$300	\$1,500
5ea Indala SG Motorola Indalla Card Reader	\$215	\$1,075
5 ea DS 150i REX PIR Access Control 12-24v	\$70	\$350
5ea AC-TS2-2T REX switch illuminated button DPDT	\$105	\$525
3ea DY-2011 Dynalock Mag lock 1200lb 12/24v	\$210	\$630
2ea AI-DBL1000S Double Mag Lock 1000lb ea 12/24/Vdc 500ma	\$321	\$642
7ea SR-1085TWH Sentrol Mag. DC Surface mount	\$3	\$21
1ea AX-AL400ULX Altronix Pwr Supply UL 12or24 vdc 4A	\$193	\$193
1ea PB-G3ACS6T Phillips AutoDome PTZ-Interior	\$1,769	\$1,769
2ea N1-VB37F NITEK UTP passive Transeiver Female BNC	\$50	\$100
2ea N1-VB37MNITEK UTP passive Transeiver Male BNC	\$50	\$100
1ea YY-PS2480 Camera Pwr Supply 24vac 4A in a can	\$82	\$82
1ea LTC0455/20 Phillips Color Camera	\$250	\$250
1ea LTC3364/50 Phillips Varifocal lens auto iris 2.8-10mm	\$71	\$71
1ea 882-03W Panvise Camera Mount	\$17	\$17
1ea US-HUB2A USP Hold Up Buttons DPDT	\$12	\$12
Misc. Parts		<u>\$200</u>

Equipment cost: 11,612 + taxSecurity project management, programming and testing 12hrs \$490Notes:

- 1.) Actual door hardware cost based on selection by others.
Listed cost is budget estimate.
- 2.) Wiring and device installation costs not included, to be determined by others.
Cable, electrical boxes, raceways and other installation parts cost not included.
- 3.) Suggest minimum 10% added contingent.
- 4.) RM4 and ARM1 require ceiling mounted generic enclosure not included.
- 5.) Installation requires a Fire System (FACP) relay interface to interrupt power to the magnetic door lock provided and installed by others.

Diagram attached:



DC Door Contact
 REX Request to Exit
 ML Magnetic Lock
 CR Card Reader
 ST Strike
 CAM Camera
 PTZ Pan Tilt Zoom

All devices monitored in real time
 in CH EDC.

1. Add PTZ camera at Location A
2. Add Duress At reception counter B
3. Add Camera in Kings/JEMS Room G
4. Add Card Readers/Door Contacts/Request to exits/Mag Locks or Strikes to 5 doors C,D,F,G,H
5. Add APCBx Controller, APS power Supply, Camera Pwr Supply, Strike/Mag Pwr Supply a E Telco Closet.
6. Add RM4 and ARM1 modules for card readers above ceiling near doors C,D,F,G,H
7. Install devices and wiring per electrical code and manufacturers installation instructions.
8. Requires CCure RS485 connection from Telco E to Electrical Closet AB 2nd Flr.
9. Requires Cat3 UTP 8C and 18G 2C shielded from each Camera location A and G to 2nd Flr Electrical Closet AB 2nd Flr.

* Installation assumes 25pr UTP video cable and camera Biphase 18G 2C shielded installed in AB 2nd Flr Electrical closet as part of 401-403 security project.

** Strike/Mag lock selection by others, equipment, location and price assumes generic installation, actual may vary.

Administration Building 6th Floor Finance security system upgrade.

Security additions to the Finance Suites on the AB 6th floor include the addition of access control to provide an audit trail and entry control to the general suite as well as specific access to vital locations within the suite. In addition duress and video monitoring is provided to facilitate immediate Security response to the public areas. Video monitoring of vital locations provides post event incident review.

Locations to receive card access include the five entry points to the suites, and four internal cross zones. Duress alarm push buttons at the public area counters 600a and camera provide staff with instant security response and the ability to monitor the public area by EDC security staff.

Original Budget estimate of new equipment needed:

2ea AS0100-004 SoftwareHouse APC8x	\$3,000	\$6,000*
2ea AS00-63-00 SoftwareHouse APS Power Supply	\$700	\$1,400*
9ea 131-912 SoftwareHouse ARM1 Relay Module	\$75	\$675
9ea RM-4 SoftwareHouse Rm4 Personality Module	\$300	\$2,700
9ea Indala SG Motorola Indalla Card Reader	\$215	\$1,935
9 ea DS 150i REX PIR Access Control 12-24v	\$70	\$630
3ea AC-TS2-2T REX switch illuminated button DPDT	\$105	\$313
6ea SNMUNL24 Securitron Mortise Electronic Strike 24V	\$234	\$1404
3ea AI-DBL1000S Double Mag Lock 1000lb ea 12/24/Vdc 500ma	\$321	\$963
12ea SR-1085TWH Sentrol Mag. DC Surface mount	\$3	\$36
1ea AX-AL600ULX Altronix Pwr Supply UL 12or24 vdc 6A	\$282	\$282

Recommended Adds:

1ea PB-G3ACS6T Phillips AutoDome PTZ-Interior	\$1,769	\$1,769
1ea N1-VB37F NITEK UTP passive Transeiver Female BNC	\$50	\$50
1ea N1-VB37MNITEK UTP passive Transeiver Male BNC	\$50	\$50
1ea YY-PS2480 Camera Pwr Supply 24vac 4A in a can	\$82	\$82
8ea US-HUB2A USP Hold Up Buttons DPDT	\$12	\$96

Misc. Parts

\$300

Total Equipment cost:

\$18,685

Security project management, programming and testing 24hrs

\$978

Notes:

* Each APC8x supports 8ea door control. 9 doors requires 2nd APC8x.

1.) Actual door hardware cost based on selection by others.

Listed cost is budget estimate.

2.) Wiring and device installation costs not included, to be determined by others.

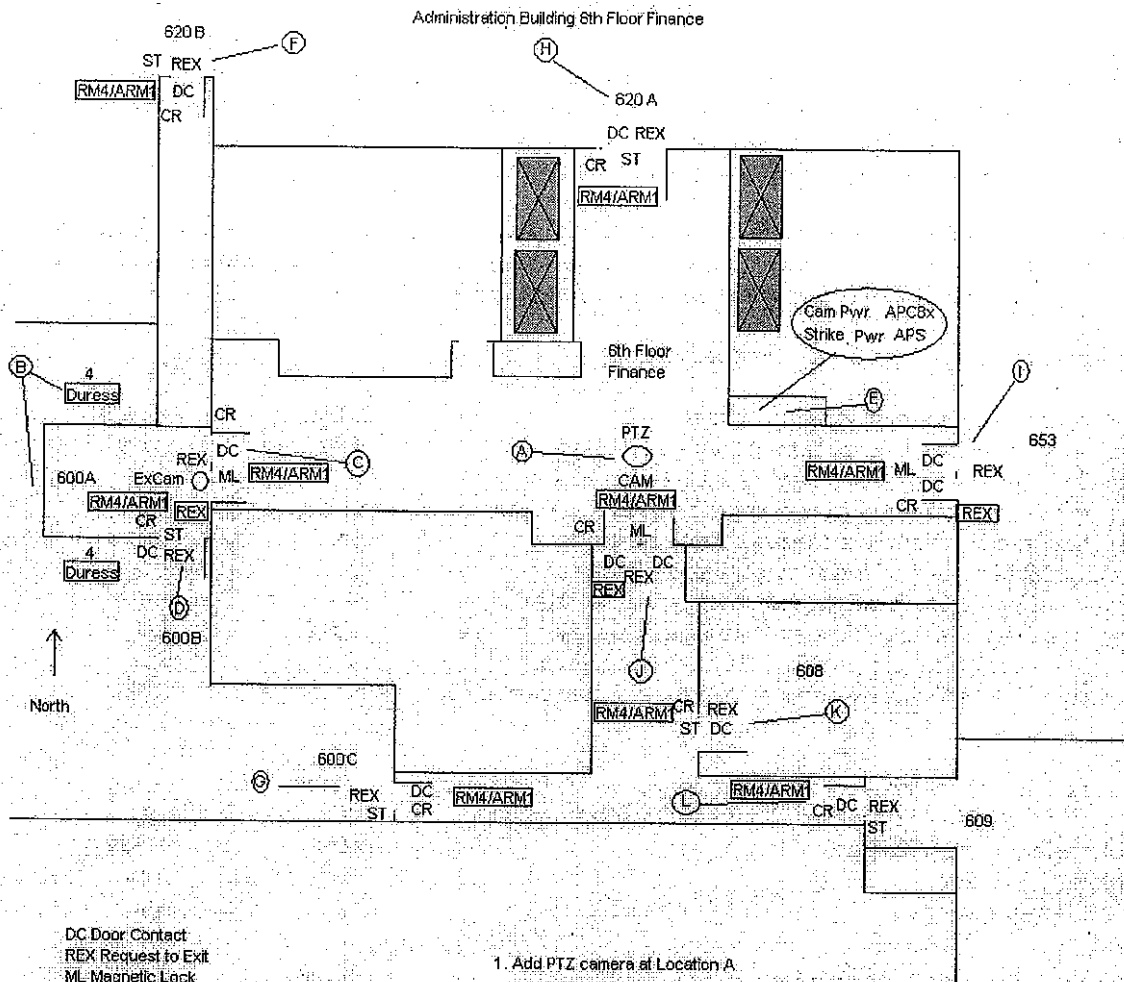
Cable, electrical boxes, raceways and other installation parts cost not included.

3.) Suggest minimum 10% added contingent.

4.) RM4 and ARM1 require ceiling mounted generic enclosure not included.

5.) Installation requires a Fire System (FACP) relay interface to interrupt power to the magnetic door lock provided and installed by others.

Diagram attached:



DC Door Contact
REX Request to Exit
ML Magnetic Lock
CR Card Reader
ST Strike
CAM Camera
PTZ Pan Tilt Zoom

All devices monitored in real time
in CH EDC.

1. Add PTZ camera at Location A
2. Add Duress at 600a public stations B
3. Install Access Control at locations C, D, F, G, H, I, J, K, L
4. Existing Camera at 600a to remain as is.
5. Add APCBx Controller, APS power Supply, Camera, Pwr Supply, Strike/Mag Pwr Supply a E Telco Closet.
6. Add RM4 and ARM1 modules for card readers above ceiling
7. Install devices and wiring per electrical code and manufacturers installation instructions.
8. Requires CCure RS485 connection from Telco E to Electrical Closet AB 2nd Flr.
9. Requires Cat3 UTP 8C and 18G 2C shielded from Camera location A to 2nd Flr Electrical Closet AB 2nd Flr.

* Installation assumes 25pr UTP-video cable and camera Biphase 18G 2C shielded installed in AB 2nd Flr Electrical closet as part of 401-403 security project.

** Strike/Mag lock selection by others, equipment, location and price assumes generic installation, actual may vary.

*** Magnetic Locks require Fire Alarm System power interface provided and installed by others.

Elections 1st Ave MBOS Security upgrade.

Security modifications to Elections 1st Ave MBOS suite include the addition of access control to provide an audit trail of access to the general suite and cage area . In addition duress and camera video monitoring is provided to facilitate Security reponse. Video monitoring of vital locations provides post event incident review and motion detection.

Locations to receive card access include the main 1st Ave. street entry point to the suite and the caged record storage area. Duress alarm push buttons in the center office area provide an immediate security response. Video Monitoring provides post event record review.

Budget estimate of New Equipment needed:

1ea AS0100-004 SoftwareHouse APC8x	\$3,000	\$3,000
1ea AS00-63-00 SoftwareHouse APS Power Supply	\$700	\$700
3ea 131-912 SoftwareHouse ARM1 Relay Module	\$75	\$225
3ea RM-4 SoftwareHouse Rm4 Personality Module	\$300	\$900
3ea Indala SG Motorola Indalla Card Reader	\$215	\$645
1 ea DS 150i REX PIR Access Control 12-24v	\$70	\$70
3ea AC-TS22 REX switch illuminated button DPDT	\$36	\$315
3ea DY-2011 Dynalock Mag lock 1200lb 12/24v	\$195	\$585
3ea SR-1085TWH Sentrol Mag. DC Surface mount	\$3	\$9
1ea AX-AL400ULX Altronix Pwr Supply UL 12or24 vdc 4A	\$182	\$182
1ea Intellex DV-8000 Digital Video recorder up to 8 cameras	\$9200	\$9200
1ea YY-PS2480 Camera Pwr Supply 24vac 4A in a can	\$82	\$82
4ea Phillips Color Camera	\$250	\$1000
4ea Phillips Lens	\$71	\$284
4ea Camera mounts	\$21	\$84
1ea Small site WAN installation	\$4540	\$4540
1ea RSC6000 Terminal Server	\$618	\$618
3ea US-HUB2A USP Hold Up Buttons DPDT	\$10	\$30
1ea Reprogram existing 7400xi security panel to report to EDC at courthouse by others (estimate) 4 hrs x \$127.00.	\$508	\$508
Misc. Parts		<u>\$500</u>
Equipment cost:		<u>\$22,977</u>
*excludes ongoing T1 data access charges of approx. \$5000 per year.		
Security project management, programming and testing 24hrs		\$978
Total		<u>\$23,955</u>

Notes:

- 1.) Actual door hardware cost based on selection by others.
Listed cost is budget estimate.
- 2.) Wiring and device installation costs not included, to be determined by others.
Cable, electrical boxes, raceways and other installation parts cost not included.
- 3.) Suggest minimum 10% added contingent.

Existing DC

Existing DC

DC DC

DC

DC

CR

DC

DC

REX

RM4 ARM1

Existing PIR Coverage

Existing PIR Coverage

Duress

Duress

Duress

Ex. Sec. Panel

RM4 ARM1

DC CR

Mag

Mag

Rex Btn

Existing PIR Coverage

Rex button located to allow only cage interior hand operation.

